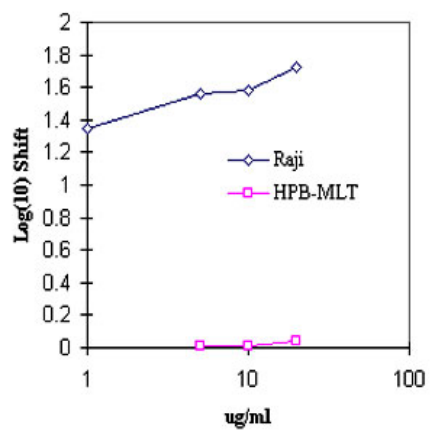
CD19 monoclonal antibody, clone BU12

Catalog # MAB6901 Size 100 ug

Applications



Flow Cytometry

5 X 10^5 cultured Raji cells were washed and incubated 45 minutes on ice with 80 uL of CD19 monoclonal antibody, clone BU12 (Cat # MAB6901) at 10 ug/mL. Cells were washed twice and incubated with Goat anti-Mouse IgG/FITC, after which they were washed three times, fixed and analyzed using a BD FACstar plus. Cells stained positive with a mean shift of 1.58 log10 fluorescent units when compared to a Mouse IgG1 negative control at a similar concentration.

Specification

Product Description	Mouse monoclonal antibody raised against native CD19.
Immunogen	Native purified CD19 from human EB-4 Burkitt lymphoma cell line .
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM sodium phosphate buffer, 100 mM potassium Chloride, 150 mM NaCl, pH 7.5 (0.5 mg/mL gentamicin sulfate)
Storage Instruction	Store at 4°C.

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Applications

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Gene Info — CD19

Entrez GeneID	930
Gene Name	CD19
Gene Alias	B4, MGC12802
Gene Description	CD19 molecule
Omim ID	107265
Gene Ontology	Hyperlink
Gene Summary	Lymphocytes proliferate and differentiate in response to various concentrations of different antige ns. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold fo r antigen receptor-dependent stimulation. [provided by RefSeq
Other Designations	B-lymphocyte antigen CD19|CD19 antigen

Publication Reference

- Engaging CD19 or target of an antiproliferative antibody 1 on human B lymphocytes induces binding of B cells to the interfollicular stroma of human tonsils via integrin alpha 4/beta 1 and fibronectin.

  Behr S, Schriever F.

  The Journal of Experimental Medicine 1995 Nov; 182(5):1191.

  Application: Func, Human, Human tonsil sections, Raji cells

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- The CD19/CR2/TAPA-1 complex of B lymphocytes: linking natural to acquired immunity.

  Fearon DT, Carter RH.

  Annual Review of Immunology 1995 Jan; 13:127.

Pathway

- B cell receptor signaling pathway
- Hematopoietic cell lineage
- Primary immunodeficiency

Disease

- Arthritis
- Crohn Disease
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Pemphigus
- Scleroderma

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